BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No. 09, Vidyaranyapura.

Sl No	Description of item	Unit	No	L	B	D	Qty	Est Cost Rs. Rate	4000000.00 Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Desilting of Drains Apartment Road		2	214.00	0.45	0.30	57.78		
	Cross Roads 1		2	130.00	0.45	0.30	35.10		
	Cross Roads 2		2	118.00	0.45	0.35	37.17		
	Cross Roads 1		1	52.00	0.45	0.30	7.02		
	Culvert		1	6.00	1.50	1.20	10.80		
	Basic Rate	82.00					**147.87**	199.36	**29480.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			2	214.00		1.35	577.80		
			2	130.00		1.35	351.00		
			2	118.00		1.35	318.60		
	Basic Rate	76.00					**1247.40**	80.56	**100491.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
			Vide Item No. 2				311.85		
	Basic Rate	628.00					**311.85**	665.68	**207592.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Culverts		1	6.00	1.50	0.15	1.35		
	Basic Rate	4867.00					**1.35**	5159.02	**6965.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Culvert		1x4	6.00		0.90	21.60		
	Basic Rate	293.00					**21.60**	310.58	**6709.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For Culvert Bottom		1	6.00	1.50	0.15	1.35		
	Side Wall		2	6.00	0.30	0.90	3.24		
	Basic Rate	5879.00					**4.59**	6231.74	**28604.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				4.59	0.090	T/cum	**0.41**	64243.42	**26539.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
8	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
			4	214.00		0.40	342.40		
			4	130.00		0.40	208.00		
			4	118.00		0.40	188.80		
	Basic Rate	831.00					**739.20**	880.86	**651132.00**
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
9	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12 Item No. 4.6 PWD SR 2016-17**	Cum							
			4	214.00	0.20	0.20	34.24		
			4	130.00	0.20	0.20	20.80		
			4	118.00	0.20	0.20	18.88		
	Basic Rate	5441.00					**73.92**	5767.46	**426331.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
10	Providing **precast slab of 250 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data	Sqm							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Culvert Deck Slab								
			10	1.50	0.60		9.00		
11	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm					**9.00**	5125.00	**46125.00**
	RCC Drain Slab		1540	0.90	0.60		831.60		
							831.60	1820.56	**1513978.00**
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		2	214.00			951		
				0.45					
	Basic Rate	313.00					**951**	331.78	**315560.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
13	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	214.00		0.45	192.60		
	Basic Rate	26.00					**192.60**	27.56	**5308.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
14	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 13				192.60		
	Basic Rate	66.00					**192.60**	69.96	**13474.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							

Scanned by CamScanner

o	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	Cross Roads 1		1	52.00	4.50		234.00		
							234.00	26.50	**6201.00**
	Basic Rate	25.00							
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
16	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Cross Roads 1		1	52.00	5.00	0.23	59.80		
							59.80	1768.08	**105731.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
17	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Cross Roads 1		1	52.00	5.00		260.00		
							260.00	27.56	**7166.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Scanned by CamScanner

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
Cross Roads 1		1	52.00	5.00	0.040	10.40		
Basic Rate	6683.00					**10.40**	7083.98	**73673.00**
Area Weightage @ 6%	400.98							
Total	**7083.98**							
Sub Total								**3571059.00**
Tender Premium @ 10%								**357106.00**
Third Party Inspection Charges @ 1%								**35711.00**
Labour Cess Charges @ 1%								**35711.00**
Add for unforseen and rounding off	L/S							**413.00**
							Total	**4000000.00**
Rupees Forty Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

25/10

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
25/10

ADMINISTRATIVE APPROVAL

Accorded For Rs. Forty lakhs only

Head of A/c. P-3165

Div. Ref. No. 17/17-18 Date. 25/10/17

Technical Sanction
Accorded For 40-00 lakh Rs
Head of A/C P3165
CER NO : 252 Dt:. 07 11 17

TA

CE (YNK).

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ne of the work: **Estimate for Construction of Culverts in Ward No. 09 Vidyaranyapura.**

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							Estimate Cost:		**2000000.00**
	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Culvert		18	6.00	1.95	1.20	252.72		
	Basic Rate	82.00					**252.72**	199.36	**50383.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Bottom Concrete		18	6.00	1.80	0.15	29.16		
	Basic Rate	4867.00					**29.16**	5159.02	**150437.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2016-17**	Cum							
			18	6.00	0.60	0.90	64.80		
	Basic Rate	4187.00					**64.80**	4438.22	**287597.00**
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							

Scanned by CamScanner

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	SRB 15.1.2: Providing flush pointing to square bble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking ints to depth of 20mm nicely lining, including st of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.2 / PWD SR 2016-17**	Sqm							
			18x2	6.00		0.90	194.40		
	Basic Rate	95.00					194.40	100.70	19576.00
	Area Weightage @ 6%	5.70							
	Total	**100.70**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17**	Cum							
	Pointing		18	6.00	1.80	0.10	19.44		
	Ramp		18x2	6.00	0.90	0.15	29.16		
	Basic Rate	5441.00					48.60	5767.46	280299.00
	Area Weightage @ 6%	326.46							
	Total	5767.46							
6	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data	Sqm							
			18	6.00	1.80		194.40		
	Basic Rate	5125.00					194.40	5125.00	996300.00
	Sub Total								1784592.00
	Tender Premium @ 10%								178459.00
	Third Party Inspection Charges @ 1%								17846.00
	Labour Cess @ 1%								17846.00
	Miscellaneous and other Charges	L/S							1257.00
								Total	2000000.00
	Rupees Twenty Lakh(s) Only								

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty lakhs only
Head of A/c P-3165
Div. Ref. No. 32/17-18 Date 25/10/17
AE 25/10 EE(BTP) 25/10

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c P-3165
Div. Ref. No. 37/17-18 Date 25/10/17
AE 25/10 EE(BTP) 25/10

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 25/10
Bruhat Bangalore Mahanagara Palike

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No. 09, Vidyaranyapura.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.		2500000.00
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	3rd Cross		2	191.00	0.45	0.35	60.17		
			2	50.00	0.45	0.30	13.50		
	Basic Rate	82.00					**73.67**	199.36	**14686.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			2	191.00		1.35	515.70		
			2	50.00		1.35	135.00		
	Basic Rate	76.00					**650.70**	80.56	**52420.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
	Deduct 25% Damaged Slabs			Vide Item No. 4			143.15		
	Basic Rate	628.00					**143.15**	665.68	**95295.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
			4	191.00		0.40	305.60		
	Basic Rate	831.00					**305.60**	880.86	**269191.00**
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
			4	191.00	0.20	0.20	30.56		
	Basic Rate	5441.00					**30.56**	5767.46	**176254.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Slab		637	0.90	0.60		343.80		
							343.80	1820.56	**625909.00**
7	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	3rd Cross		1	191.00	6.00		1146.00		
	10th Main Road Sides		2	50.00	0.75		75.00		
	UGD Cutting Portion		1	50.00	0.90		45.00		
							1266.00	26.50	**33549.00**
	Basic Rate	25.00							
	Area Weightage @ 6%	1.50							
	Total	**26.50**							

Scanned by CamScanner

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	3rd Cross		1	191.00	6.00	0.23	263.58		
	10th Main		2	50.00	0.75	0.23	17.25		
	UGD Cutting Portion		1	50.00	0.90	0.23	10.35		
	Basic Rate	1668.00					**291.18**	1768.08	**514830.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
9	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	3rd Cross		1	191.00	6.00		1146.00		
	10th Main		1	50.00	6.00		300.00		
	Basic Rate	26.00					**1446.00**	27.56	**39852.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
10	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	3rd Cross		1	191.00	6.00	0.040	45.84		
	10th Main		1	50.00	6.00	0.040	12.00		
	Basic Rate	6683.00					**57.84**	7083.98	**409737.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							

Scanned by CamScanner

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Sub Total								2231723.00
Tender Premium @ 10%								223172.00
Third Party Inspection Charges @ 1%								22317.00
Labour Cess Charges @ 1%								22317.00
Add for unforseen and rounding off	L/S							471.00
							Total	2500000.00

Rupees Twenty Five Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
25/10

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty Five lakhs only
Head of A/c. P-3165
Div. Ref. No. 19/17-18 Date 25/10/17
AE 25/10
EE(BTP) 25/10

Technical Sanction
Accorded For 25.00 lakh Rs
Head of A/C P3165
CER NO : 25/A Dt:. 07/11/17
TA CE (YNK)

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No. 09, Vidyaranyapura.**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.	3000000.00	
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Desilting of Drains 1st Main Hanuman LO		2	310.00	0.45	0.35	97.65		
			2	6.00	1.50	1.20	21.60		
	Basic Rate	82.00					**119.25**	199.36	**23774.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			2	310.00		1.35	837.00		
	Basic Rate	76.00					**837.00**	80.56	**67429.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
			Vide Item No. 2				209.25		
	Basic Rate	628.00					**209.25**	665.68	**139294.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Culverts		2	6.00	1.50	0.15	2.70		
	Basic Rate	4867.00					**2.70**	5159.02	**13929.00**
	Area Weightage @ 6%	292.02							

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**5159.02**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Culvert		2x4	6.00		0.90	43.20		
	Basic Rate	293.00					**43.20**	310.58	**13417.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For Culvert Bottom		2	6.00	1.50	0.15	2.70		
	Side Wall		2x2	6.00	0.30	0.90	6.48		
	Basic Rate	5879.00					**9.18**	6231.74	**57207.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				9.18	0.090	T/cum	**0.83**	64243.42	**53078.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
8	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
			4	310.00		0.40	496.00		
	Basic Rate	831.00					**496.00**	880.86	**436907.00**

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
9	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
			4	310.00	0.20	0.20	49.60		
	Basic Rate	5441.00					**49.60**	5767.46	**286066.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
10	Providing **precast slab of 250 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Culvert Deck Slab		20	1.50	0.60		18.00		
							18.00	5125.00	**92250.00**
11	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Slab		1028	0.90	0.60		555.12		
							555.12	1820.56	**1010629.00**
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		2	310.00			1378		
				0.45					
	Basic Rate	313.00					**1378**	331.78	**457119.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
13	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	310.00		0.45	279.00		
	Basic Rate	26.00					**279.00**	27.56	**7689.00**

Scanned by CamScanner

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Area Weightage @ 6%	1.56							
Total	**27.56**							
KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
		Qty Vide Item No. 13				279.00		
Basic Rate	66.00					**279.00**	69.96	**19519.00**
Area Weightage @ 6%	3.96							
Total	**69.96**							
Sub Total								**2678307.00**
Tender Premium @ 10%								**267831.00**
Third Party Inspection Charges @ 1%								**26783.00**
Labour Cess Charges @ 1%								**26783.00**
Add for unforseen and rounding off	L/S							**296.00**
							Total	**3000000.00**
Rupees Thirty Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

25/10

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
25/10

ADMINISTRATIVE APPROVAL

Accorded For Rs. Thirty lakhs only

Head of A/c. P-3165

Div. Ref. No. 18/17-18 Date. 25/10/17

25/10
AE

EE(BTP)

Technical Sanction
Accorded For 30.00 lakhs
Head of A/C. P 3165
CER NO : 253 Dt:. 07.11.17

TA

CE (YNK).

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads and Drains at Resina from Deshabhandunagara in Ward No. 09, Vidyaranyapura.**

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.		500000.00
	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Ch: 0 to 25.00 M		1	25.00	12.90	0.20	64.50		
	Ch: 26 to 75.00 M		1	58.00	6.00	0.20	69.60		
	Basic Rate	1668.00					**134.10**	1768.08	**237100.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
2	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Ch: 0 to 25.00 M		1	25.00	13.00		325.00		
	Ch: 26 to 75.00 M		1	58.00	6.00		348.00		
	Basic Rate	26.00					**673.00**	27.56	**18548.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
3	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	Ch: 0 to 25.00 M		1	25.00	13.00	0.040	13.00		
	Ch: 26 to 75.00 M		1	58.00	6.00	0.040	13.92		
	Basic Rate	6683.00					**26.92**	7083.98	**190701.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							
	Sub Total								446349.00

Scanned by CamScanner

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Tender Premium @ 10%								44635.00
Third Party Inspection Charges @ 1%								4463.00
Labour Cess Charges @ 1%								4463.00
Add for unforseen and rounding off	L/S							90.00
							Total	500000.00
Rupees Five Lakh(s) Only								

ification:

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per P.W.D S.R of 2016-17.
This work included under 2016-17 P-3165 Special Grant.
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c. P-3165

Div. Ref. No. As/30/17-18 Date. 25/10/17.

AE 25/10 EE(BTP) 25/10

TECHNICAL N

Accorded For Rs. Five lakhs only

Head of A/c. P-3165

Div. Ref. No. 35/17-18 Date. 25/10/17

AE 25/10 EE(BTP) 25/10

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No. 09, Vidyaranyapura.**

							Est Cost Rs.	2000000.00
	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	For Anganavadi Toilet		2	3.00	0.90	0.75	4.05		
			3	1.90	0.90	0.75	3.85		
	For Drain		1	100.00	0.70	0.75	52.50		
	For CC Road		1	100.00	5.00	0.10	50.00		
	Basic Rate	189.00					**110.40**	318.69	**35182.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		295.08	✓						
	Area Weightage @ 8%	23.61	✓						
	Total	**318.69**	✓						
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Anganavadi Toilet		2	3.00	0.90	0.15	0.81		
			3	1.90	0.90	0.15	0.77		
	For Drain		1	100.00	0.75	0.15	11.25		
	For CC Road		1	100.00	5.00	0.15	75.00		
	Temple Gront Side		1	15.00	15.00	0.15	33.75		
	Basic Rate	4867.00	✓				**121.58**	5256.36	**639066.00**
	Area Weightage @ 8%	389.36	✓				✓	✓	✓
	Total	**5256.36**	✓						

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	For Anganavadi Toilet		2	3.00	0.75	0.60	2.70		
			3	1.90	0.75	0.60	2.57		
							5.27	4521.96	**23808.00**
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	For Anganavadi Toilet		2	3.00	0.45	0.45	1.22		
			3	1.90	0.45	0.45	1.15		
							2.37	5405.40	**12807.00**
	Basic Rate	5005.00							
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
5	KSRB 4-1.5 : Providing and laying in position **plain cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (**P.No.12, I.No. 4.5 of PWD SR 2016-17**)	Cum							
	For Anganavadi Toilet		2	3.00	0.20	0.10	0.12		
			3	1.90	0.20	0.10	0.11		
	For Samudhaya Bhavana Walls		2	1.80	0.20	0.10	0.07		
			1	2.60	0.20	0.10	0.05		
							0.36	5985.36	**2143.00**
	Basic Rate	5542.00							
	Area Weightage @ 8%	443.36							
	Total	**5985.36**							
6	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
	For Anganavadi Toilet		2	3.00		3.00	18.00		
			3	1.90		3.00	17.10		

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For Samudhaya Bhavana Walls		2	1.80		3.00	10.80		
			1	2.60		3.00	7.80		
	Deduction for Door		4	0.75		2.10	-6.30		
	Basic Rate	831.00					**47.40**	897.48	**42541.00**
	Area Weightage @ 8%	66.48							
	Total	**897.48**							
	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 262 / Item No. 37.4, PWD SR 2016-17**	m							
			3	3.50			10.50		
			4	2.00			8.00		
	Basic Rate	324.00					**18.50**	343.44	**6354.00**
	Area Weightage @ 8%	19.44							
	Total	**343.44**							
8	**Providing TRAPEZOIDAL PROFILED SHEET** Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. **Page No. 300 / Item No. 38.3, PWD SR 2016-17**	Sqm							
	RCC Drain Slab		1	3.00	2.00		6.00		
	Basic Rate	770.00					**6.00**	816.20	**4897.00**
	Area Weightage @ 8%	46.20							
	Total	**816.20**							
9	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.16, PWD SR 2016-17 (Inside Wall)**	Sqm							
			2	3.00		3.00	18.00		
			4	1.90		3.00	22.80		
			2	1.80		3.00	10.80		
			1	2.60		3.00	7.80		
			2	0.75		2.10	-3.15		
	Basic Rate	221.00					**56.25**	238.68	**13426.00**
	Area Weightage @ 8%	17.68							
	Total	**238.68**							

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114 / Item No. 15.16, PWD SR 2016-17 outside wall)**	Sqm							
			2	3.00		3.00	18.00		
			2	1.90		3.00	11.40		
			2	1.80		3.00	10.80		
			1	2.60		3.00	7.80		
			2	0.75		2.10	-3.15		
	Basic Rate	198.00					**44.85**	213.84	**9591.00**
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
11	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic tiles 30cm x 60cm 6mm thick on a bed of 20mm thick **Page No. 106, Item No. 14.36.4, PWD SR 2016-17**	Sqm							
			2	1.90	1.90		7.22		
	Basic Rate	1178.00					**7.22**	1272.24	**9186.00**
	Area Weightage @ 8%	94.24							
	Total	**1272.24**							
12	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 60 cms. **Page No.106, Item No. 14.41.2 PWD SR 2016-17**	Sqm							
			4	1.90		2.10	15.96		
	Basic Rate	1484.00					**15.96**	1602.72	**25579.00**
	Area Weightage @ 8%	118.72							
	Total	**1602.72**							
13	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size **Page No. 56, Item No. 9.84, PWD SR 2016-17**	Sqm							
			4	0.75		2.10	6.30		
	Basic Rate	526.00					**6.30**	568.08	**3579.00**

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	42.08							
	Total	**568.08**							
	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. **Page No. 56, Item No. 9.83, PWD SR 2016-17**	Sqm							
			4	0.75		2.10	6.30		
	Basic Rate	3193.00					**6.30**	3448.44	**21725.00**
	Area Weightage @ 8%	255.44							
	Total	**3448.44**							
15	KSRB 11-1 : Providing and fixing white vitreous china clay, water closet **Indian type** (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C **flushing cistern** (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 77 / Item No. 12.1 / PWD SR 2016-17**	pan							
			2				**2**	3730.32	**7461.00**
	Basic Rate	3454.00							
	Area Weightage @ 8%	276.32							
	Total	**3730.32**							
16	KSRB 11-11.1 : **Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm** with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 80, Item No. 12.23. PWD SR 2016-17**	Unit							
			2				**2**	4196.88	**8394.00**
	Basic Rate	3886.00							
	Area Weightage @ 8%	310.88							
	Total	**4196.88**							

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB13-1.4: **Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 2mm** dia nominal bore with fittings (medium grade weight 1.65 kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.8 **Page No. 90, Item No. 13.4, PWD SR 2016-17**	m							
			1	30.00			**30.00**	378.00	**11340.00**
	Basic Rate	350.00							
	Area Weightage @ 8%	28.00							
	Total	**378.00**							
18	Supplying water **storage tanks made of virgin polymer (LLDPE)** with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. **(P.No. 265 / I.No. 37.58 of PWD SR 2016-17)**	L							
			1	500.00			**500**	6.48	**3240.00**
	Basic Rate	6.00							
	Area Weightage @ 8%	0.48							
	Total	**6.48**							
19	KSRB13-6.2-2 : Providing and fixing in **position brass stop cock of approved quality 20mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 **Page No. 91, Item No. 13.27, PWD SR 2016-17**	Each							
			12				**12**	172.80	**2074.00**
	Basic Rate	160.00							
	Area Weightage @ 8%	12.80							
	Total	**172.80**							
20	KSRB 12-1.2 : Providing and laying in **position to required level or slope 150mm internal diameter salt glazed stoneware pipes** grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 / 12.7 **Page No. 70 / Item No. 11.2 / PWD SR 2016-17**	M							
			1	10.00			**10.00**	381.24	**3812.00**
	Basic Rate	353.00							
	Area Weightage @ 8%	28.24							
	Total	**381.24**							
21	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	Drain Bottom		1	100.00	0.75	0.15	11.25		
	Side Wall		2	100.00	0.15	0.60	18.00		

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Covering Slab		188	0.60	0.75	0.10	8.46		
	Basic Rate	5879.00					**37.71**	6231.74	**234999.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
22	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
	75 Kg / Cum		0.070	30.00			2.10		
	Basic Rate	60607.00					**2.10**	64243.42	**134911.00**
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
23	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Roof Slab		4	100.00		0.60	240.00		
			118	2.70		0.10	31.86		
	Basic Rate	293.00					**271.86**	310.58	**84434.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
24	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant	Cum							
			1	100.00	5.00	0.10	50.00		
			1	15.00	10.30	0.125	19.31		
	Basic Rate	5197.00					**69.31**	5508.82	**381830.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							

Scanned by CamScanner

Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater rubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
Roof Slab		1	100.00	5.00		500.00		
		1	15.00	10.30		154.50		
Basic Rate	90.00					**654.50**	95.40	**62439.00**
Area Weightage @ 6%	5.40							
Total	**95.40**							
Sub Total								**1784818.00**
Tender Premium @ 10%								**178482.00**
Third Party Inspection Charges @ 1%								**17848.00**
Labour Cess Charges @ 1%								**17848.00**
Add for unforseen and rounding off	L/S							**1004.00**
							Total	**2000000.00**

Rupees Twenty Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 25/10
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
25/10

ADMINISTRATIVE APPROVAL

Accorded For Rs. Twenty lakhs only

Head of A/c. P-3165

Div. Ref. No. 28/17-18 Date. 25/10/17

25/10
AE

EE(BTP) 25/10

TECHNICAL SANCTION

Accorded For Rs. Twenty lakhs only

Head of A/c. P-3165

Div. Ref. No. 33/17-18 Date. 25/10/17

25/10
AE

EE(BTP) 25/10

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.		4500000.00
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	For Cross Road CC Drain		2	152.00	1.00	0.90	273.60		
	Sub Cross Road BS Slab Drain		2	20.00	0.75	0.75	22.50		
	Desilting of Drain		2	125.00	0.45	0.45	50.63		
	Basic Rate	82.00					**346.73**	199.36	**69125.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			2	125.00		1.35	337.50		
	Basic Rate	76.00					**337.50**	80.56	**27189.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
				Vide Item No. 2			84.38		
	Sub Cross Road BS Slab Drain		2	20.00		1.35	54.00		
	Basic Rate	628.00					**138.38**	665.68	**92113.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For New Drain Ganesha Temple Road		2	152.00	1.00	0.15	45.60		

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	4867.00					**45.60**	5159.02	**235251.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	CC Drain		2x3	152.00		0.60	547.20		
	Basic Rate	293.00					**547.20**	310.58	**169949.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing, main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For CC Drain Bottom		2	152.00	0.90	0.15	41.04		
	Side Wall		4	152.00	0.15	0.60	54.72		
	Basic Rate	5879.00					**95.76**	6231.74	**596751.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
7	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				95.76	0.060	T/cum	**5.75**	64243.42	**369117.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
8	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
			4	125.00		0.40	200.00		
	Basic Rate	831.00					**200.00**	880.86	**176172.00**

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
9	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
			4	125.00	0.20	0.20	20.00		
	Basic Rate	5441.00					**20.00**	5767.46	**115349.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
10	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data	Sqm							
	RCC Drain Slab		957	0.90	0.60		516.78		
							516.78	1820.56	**940829.00**
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		2	125.00			556		
				0.45					
	Basic Rate	313.00					**556**	331.78	**184322.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
2	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	125.00		0.45	112.50		
	Basic Rate	26.00					**112.50**	27.56	**3101.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 13				112.50		
	Basic Rate	66.00					**112.50**	69.96	**7871.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
14	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	Cross Road 1		1	152.00	5.00		760.00		
	Cross Road 2		1	125.00	5.00		625.00		
	Basic Rate	25.00					**1385.00**	26.50	**36703.00**
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
15	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Cross Road 1		1	152.00	5.00	0.23	174.80		
	Cross Road 2		1	125.00	5.00	0.23	143.75		
	Basic Rate	1668.00					**318.55**	1768.08	**563222.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Cross Road 1		1	152.00	5.00		760.00		
	Cross Road 2		1	125.00	5.00		625.00		
	Basic Rate	26.00					**1385.00**	27.56	**38171.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	Cross Road 1		1	152.00	5.00	0.040	30.40		
	Cross Road 2		1	125.00	5.00	0.040	25.00		
	Basic Rate	6683.00					**55.40**	7083.98	**392452.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							
	Sub Total								**4017687.00**
	Tender Premium @ 10%								**401769.00**
	Third Party Inspection Charges @ 1%								**40177.00**
	Labour Cess Charges @ 1%								**40177.00**
	Add for unforseen and rounding off	L/S							**190.00**
								Total	**4500000.00**

Rupees Forty Five Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty Five lakhs only
Head of A/c..... P-3165 .....
Div. Ref. No. 20/17-18 ..... Date.. 25/10/17
AE 25/10
EE(BTP) 25/10

Technical Sanction
Accorded For ..... 45.00 lakh Rs
Head of A/c..... P3165
CER NO :..... 255 Dt:.. 07/11/17
TA
CE (YNK)

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads and Drains at at behind Kote Anjaneyswamy Temple Cross Roads Vidyaranyapura in Ward No. 09, Vidyaranyapura.**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.		1500000.00
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum		150					
	Old Police Station		2	128.00	0.45	0.40	46.08		
	Basic Rate	82.00					**46.08**	199.36	**9187.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			2	128.00		1.35	345.60		
	Basic Rate	76.00					**345.60**	80.56	**27842.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
			Vide Item No. 2				89.86		
	Basic Rate	628.00					**89.86**	665.68	**59815.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
4	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
			4	128.00		0.40	204.80		
	Basic Rate	831.00					**204.80**	880.86	**180400.00**
	Area Weightage @ 6%	49.86							
	Total	**880.86**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
			4	128.00	0.20	0.20	20.48		
	Basic Rate	5441.00					**20.48**	5767.46	**118118.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data	Sqm							
	RCC Drain Slab		427	0.90	0.60		230.40		
							230.40	1820.56	**419457.00**
7	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	Old Police Station		1	128.00	5.50		704.00		
	Basic Rate	25.00					**704.00**	26.50	**18656.00**
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Old Police Station		1	128.00	5.50	0.23	161.92		
	Basic Rate	1668.00					**161.92**	1768.08	**286288.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
9	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Old Police Station		1	128.00	5.50		704.00		
	Basic Rate	26.00					**704.00**	27.56	**19402.00**
	Area Weightage @ 6%	1.56							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**27.56**							
10	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	Old Police Station		1	128.00	5.50	0.040	28.16		
	Basic Rate	6683.00					**28.16**	7083.98	**199485.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							
	Sub Total								**1338650.00**
	Tender Premium @ 10%								**133865.00**
	Third Party Inspection Charges @ 1%								**13387.00**
	Labour Cess Charges @ 1%								**13387.00**
	Add for unforseen and rounding off	L/S							**711.00**
								Total	**1500000.00**
	Rupees Fifteen Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3165 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

25/10

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

25/10

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifteen lakhs only

Head of A/c. P-3165

Div. Ref. No. 29/17-18 Date. 25/10/17

25/10
AE

EE(BTP) 25/10

TECHNICAL SANCTION

Accorded For Rs. Fifteen lakhs only

Head of A/c. P-3165

Div. Ref. No. 34/17-18 Date. 25/10/17

25/10
AE

25/10
EE(BTP)

Scanned by CamScanner